

IMC 0350 Meeting

February 22, 2005



Desired Outcomes

- Demonstrate Davis-Besse's operations continue to be safe and conservative
- Discuss site activities since last meeting
- Status the improvement initiatives and Confirmatory Order Independent Assessments



Mark Bezilla Vice President



Meeting Agenda

■ Plant Performance	Barry Allen
Steam Generator Inspection - Mid-Cycle	OutageBarry Allen
■ Independent Assessments	
-Engineering Program Effectiveness	Steve Loehlein
-Organizational Safety Culture, including S	SCWEMark Bezilla
Oversight Perspective	



Barry Allen Director - Site Operations





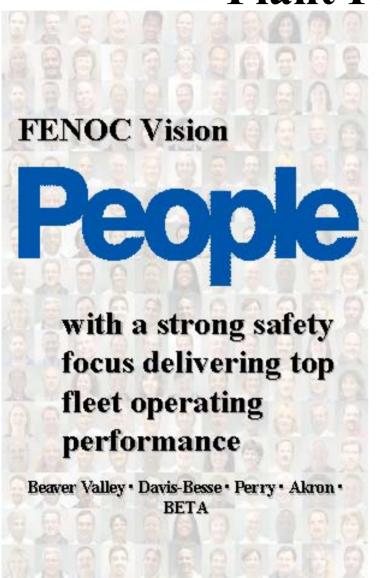
People with a strong safety focus delivering top fleet operating performance



Plant Status

- $-\sim 100\%$ power
- $\sim 945 \text{ Mwe}$
- -13 continuous days of service
- —40 Human Performance success days





Noteworthy items

- December 16 NRC Biennial
 Problem Identification and
 Resolution (PI&R) Inspection Team
 exit
- December 17 MonthlyPerformance Review
- December 21 Dr. Sonja Haber conducted a debrief of the Confirmatory Order Independent Assessment of SC/SCWE
- December 23 Entered Station
 Isolation procedure (winter weather)







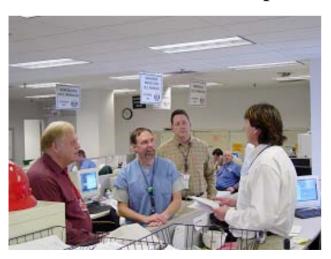
Outage Control Center

- January 5 Dr. Sonja Haber presented the results the Safety Culture / Safety Conscious Work Environment to site employees
- January 10 -12 Industry
 Accreditation Team Lead Visit
- January 13 Loss of D1 Electrical Bus
- January 17 Started Steam Generator
 Inspection Mid-Cycle Outage
- January 17 21 Industry Assist VisitOperations Performance
- January 18 28 NRC Mid-Cycle Inservice Inspection





FENOC President tours plant



FE Executive VP & COO tours plant

Noteworthy items (continued)

- January 18 27 NRC ALARA and Radworker Access Control Inspection
- January 20 Plant tour by FENOCPresident
- January 25 Plant visit by NRC 0350
 Panel Chairman and Region III Branch
 Chief
- February 3 Tour by FirstEnergyExecutive Vice-President & ChiefOperating Officer
- February 9 End of Steam Generator
 Inspection Mid-cycle Outage and
 synchronize turbine to grid





Restart Readiness Meeting

■ 2005 Key Events Calendar

- February 15 17 Mock Fleet Support/ Corporate Evaluation
- March 14 18 Industry Technical Skills Training Accreditation Team Visit
- March 28 April 1 Industry Primary Systems Integrity Review Visit
- April 18 May 6 NRC Safety System Design and Performance Capability Inspection
- May 16-20 NRC Biennial Maintenance Rule Inspection
- May 17 Evaluated Emergency Preparedness Exercise
- August Industry Plant, Corporate, & Simulator Evaluation (*Tentative)
- October Industry Operations Training Accreditation Team Visit

Conclusion





 Davis-Besse's operations continue to be safe and conservative



Steam Generator Inspection-Mid-Cycle Outage

Barry Allen Director - Site Operations





Steam Generator Inspection - Mid-Cycle Outage Accomplishments

- January 17, 2005 -February 9, 2005
- Focus on **SAFETY**
 - -No Lost Time Accidents
 - No OSHA recordable accidents
 - -Shutdown Safety maintained
 - -Effective RCS Cleanup
 - Good radiological performance
 - Improved plant materiel condition
 - -Set positive tone for the year



Employees FOCUSED on SAFETY



Steam Generator Inspection - Mid-Cycle Outage Accomplishments

■ Project List

- Once-Through Steam GeneratorEddy Current Testing
- -Train 2 Station Battery Replacement
- Reactor Head and Under Vessel Inspections
- Control Rod Drive MechanismFlange Inspections
- Boric Acid Corrosion Control Inspections
- -Pressurizer Nozzle Inspections
- Reactor Coolant PumpInspections
- -Refueling Canal Liner Repair



Lifting battery cells



Steam Generator Inspection - Mid-Cycle Outage Accomplishments



Polar Crane Modifications



Training on Steam Generator Mock-up



Turbine Bypass Valves



Steam Generator Inspection



Steam Generator Inspection - Mid-Cycle Outage Accomplishments

- Operator Burdens Fixed
 - -Eight Control Room Deficiencies
 - -Three Level 1 Workarounds
 - -One Level 2 Workarounds
 - Ten Temporary Modifications removed



Control Room



Steam Generator Inspection - Mid-Cycle Outage Control Room - Level 1 Workaround

- Control Rod Drive Transfer Pulser
 - -Issue
 - •Control Rods could not be remotely transferred to their auxiliary power supply
 - -As Left Condition
 - •CRD remote transfer function restored



Removed CRD Transfer Pulser



Steam Generator Inspection - Mid-Cycle Outage Control Room - Level 2 Workaround

- Electro-Hydraulic Control -24
 VDC Ground
 - -Issue
 - •Intermittent grounds
 - -As Left Condition
 - Grounds cleared



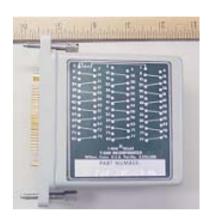
Ground configuration



- Rod 2-3 Actual Position Indicator
 - -Issue
 - Position Indication erratic
 - -As Left Condition
 - •Relays replaced and position indication restored



Control Rod position indicator



Replaced Relay



- Main Steam 101 Valve Indicator
 - -Issue
 - Open indicating light failed to illuminate
 - –As Left Condition
 - Limit switch adjusted and tested satisfactorily



MS101 Control Room indicator



Limit switch ZS101D





- Control Switch HIS197B (Valve switch) malfunctioning
 - -Issue
 - Control switch loose
 - -As Left Condition
 - Control switch replaced
 - Tested satisfactorily



Replaced indicator HIS197B





- Flow Indicating Controllers ICS32A & B Indicator
 - -Issue
 - Indicator meter offset
 - -As Left Condition
 - Indicators calibrated and returned to service





FIC ICS32A

FIC ICS32B





- Reactor Coolant Pump 2-1 Seal Standpipe
 - -Issue
 - •Seal standpipe alarm malfunction
 - -As Left Condition
 - •Relay replaced and alarm function restored



RCP Seal Standpipe



- Cooling Tower Valve 861 Indicating Light
 - -Issue
 - •Indicating light failed to illuminate
 - -As Left Condition
 - Indicating light repaired



Control Room indication for CT861



Steam Generator Inspection - Mid-Cycle Outage ZONE 2 - Level 1 Workaround

- Turbine Bypass Valves SP13A2& SP13A3
 - -Issue
 - Valves sticking
 - -As Left Condition
 - Actuators modified and valves response satisfactory



Unmodified valve



Valve after Engineering Change Package





Steam Generator Inspection - Mid-Cycle Outage Emergent Issues

■ Cooling Tower Icing







Steam Generator Inspection - Mid-Cycle Outage Emergent Issues

■ Decay Heat Pump #2 Mechanical Seal







Steam Generator Inspection - Mid-Cycle Outage Conclusion

- ■Davis-Besse Steam Generator Inspection Outage was well planned, well-coordinated, and safely executed
- ■Plant equipment and systems support continued safe operation



Independent Assessments

Steve Loehlein Director - Engineering





Independent Assessments Confirmatory Order Action Plan

- 2004 Schedule
 - Operations Performance (August)
 - Corrective Action Program Implementation (September)
 - Engineering Program Effectiveness (October)
 - Organizational Safety Culture, including SCWE (November)
- 2005 Schedule (tentative)
 - Operations Performance (June)
 - Corrective Action Program Implementation (July)
 - Organizational Safety Culture, including SCWE (November)
 - Engineering Program Effectiveness (December)



- Dates: October 10 22, 2004
- Assessment Team consisted of three consultants and three senior nuclear industry peers
- Scope included six key areas:
 - Modifications
 - Calculations
 - System Engineering
 - Use of Corrective Action Program
 - Management topics
 - Self-Assessments



- Assessment Team found engineering program to be generally effective
- Team's findings consisted of:
 - 3 Strengths
 - 3 Areas For Improvement
 - 3 Positive Noteworthy Items
 - 13 Negative Noteworthy Items



- Areas For Improvement included
 - -Closure of some modifications
 - Management focus on and rate of progress of the Calculation
 Improvement Program
 - -Self-Assessment schedule and consistency in performance
- Noteworthy Items
 - -Selection and prioritization of modifications
 - -System Description content
 - -Focus of Margin Management initiative
 - -System Health Rating
 - -System Health Improvement plans elements



- Noteworthy Items (continued)
 - -Access to calculations by system engineers
 - -Level of fleet counterpart interactions
 - Acceptance of corrective actions
 - -Parallel processes interfaces
 - -Engineering management tools and techniques for planning, scheduling, assigning work
 - -Backlog reduction
 - -Human Resource development
 - -Engineering Rigor and Attention to Detail



- Strengths included
 - -Rapid Response Team
 - -Internalization of Engineering Principles and Expectations
 - -Engineering Assessment Board effect on product quality
- Positive Noteworthy Items
 - -Implementation and use of the Calculation Utility
 - -Effective use of the Design Interface Evaluation (DIE)
 - -System Engineering Support of the Plant



Conclusions

- -Engineering Programs were found to be generally effective at Davis-Besse
- Measurable improvement over past performance is evident
- -Our goal remains to be continuously improving



Independent Assessments Organizational Safety Culture, including SCWE

Mark Bezilla
Vice President





- Dates: Conducted during November/December 2004
- Team Members:
 - Dr. Sonja B. Haber, Human Performance Analysis, Team Leader
 - Dr. Deborah A. Shurberg, Independent Consultant (Human Performance Analysis)
 - Rear Admiral (Ret.) Whitney Hansen, Independent Consultant (Dolphin Enterprises)
 - Aldo Capristo, Fleet Employee Concerns Program Manager, Nuclear Management Co.
- Assessment Team found that the Safety Culture and Safety Conscious Work Environment at Davis-Besse had not significantly changed since the last independent assessment conducted in February 2003



■ Safety Culture behavior and attitudes are not something that are changed in the short term; and initiatives by management must be continually assessed to ensure long term changes



■ Areas For Improvement:

- -Although safety is a recognized value in the organization, it is inconsistently internalized across all levels of personnel
- -Accountability and ownership for safety are not yet universally accepted at all levels within the organization
- -Safety is not yet consistently integrated into all activities in the organization
- An integrated and cohesive organizational safety leadership process is not clearly evident
- -A learning-driven organization is still not fully developed
- -The process for establishing a strong and effective and sustainable SCWE continues to need management attention



Cross-cutting issues

- -FENOC and Davis-Besse Senior Management need to develop a long-term strategic vision and plan for a safety culture and safety conscious work environment
- A focus on trust needs management attention at all levels in the FENOC and Davis-Besse organizations
- -Challenges in communication in the Davis-Besse organization with respect to clear and consistent expectations, standards, and values, continue to require management actions
- A management focus should be placed on safety being internalized by all employees as a way of doing business



- Cycle 14 Operational Improvement Plan
- Continuous Safety Culture Improvement Initiative
- Periodic monitoring of Safety Culture and Safety Conscious Work Environment



Actions/Action Plan

- -Immediate Actions
 - -Davis-Besse commissioned an independent team to facilitate an internal assessment of the results obtained from the annual internal SCWE survey conducted in October 2004
 - The COIA results were presented by the Independent Assessment Team Lead to management and representatives of the workforce
 - -The COIA results were again presented by the Independent Assessment Team Lead to site personnel at an All-Hands session



- Actions/Action Plan
 - -Short Term Actions
 - The management team adopted the following areas of focus to demonstrate a clear overriding priority for Nuclear, Industrial, Radiological, and Environmental Safety for the 2005 Steam Generator Inspection Mid-Cycle Outage
 - Safety vs. Schedule Focus
 - Overall Communication Quality
 - Openness of Communication of Emergent Issues
 - Openness for Employees Ideas for Solutions to Emergent Issues
 - Resolution and Disposition of Emergent Issues
 - Engagement of the Workforce



Actions/Action Plan

- -Short Term Actions (continued)
 - A follow-up employee survey will be performed to see how actions and behaviors were perceived by the organization
 - -FENOC will review the organizational hierarchy of the Employee Concerns Program
 - Develop and implement a communication campaign to refamiliarize employee with the FENOC Employee Concerns
 Program and the Safety Conscious Work Environment
 Review Team functions



- Actions/Action Plan
 - -Long Term Actions
 - -Davis-Besse will engage the workforce through the Teamwork, Ownership, Pride (TOP) Team supplemented by other employees from the organization, to work as a multidiscipline/cross-functional team for the purpose of developing and communicating alignment and communication tools to facilitate the communication and continued learning of FENOC/Davis-Besse visions, values, standards and expectations, priorities, including short and long-tem goals for the organization



- Actions/Action Plan
 - –Long Term Actions (continued)
 - -Perform a modified mid-period SCWE Survey following the organizational alignment sessions to evaluate the initial effectiveness of this initiative
 - –Actions will be developed and implemented to devote more time in the work-week for the manager/supervisor and manager/employee interactions for listening to and addressing issues and concerns



- Actions/Action Plan
 - -Long Term Actions
 - -FENOC and Davis-Besse will assess the following Safety Culture and SCWE monitoring and assessment tools to identify opportunities to enhance their effectiveness
 - -FENOC Safety Culture Monitoring and Assessment Business Practices
 - -The Quarterly Safety Conscious Work Environment Performance Indicators
 - -The Annual SCWE Survey questions
 - -The Davis-Besse Weekly 3-Question survey questionnaire



Conclusions

Implementation of these Actions/Actions Plan will further enhance and drive long term improvement in the Safety Culture and Safety Conscious Work Environment at Davis-Besse





Oversight Perspective

Ray Hruby

Manager – Nuclear Oversight - DB





Oversight Perspective 4th Quarter Assessment Report

- Audited 14 Primary Elements
 - −3 rated Effective
 - -11 rated Satisfactory
- Reconciled 5 Program Areas
 - _2 rated Satisfactory
 - _3 rated Marginally Effective



Oversight Perspective Insights and Future Focus Areas

- Training
- Procedure Content and Adherence
- Organizational Performance
- Future Focus Areas
 - Operations Performance
 - FENOC Reorganization Implementation
 - Training



Closing Comments

FENOC Vision:

People with a strong safety focus delivering top fleet operating performance

Mark Bezilla
Vice President





Actions for Continuous Improvement

■Integrated Restart Report dated November 23, 2003 & Supplement to report dated February 6, 2004

 Appendix A Commitments 	38
 Closed to date 	31

Cycle 14 Operational Improvement Plan

- Appendix D Commitments	94
- Closed to date	71

